

U.S. Serial No. 09/891,064  
Docket No. 26068-08D

Examiner: P. Nolan  
Art Unit: 1644

### LISTING OF CLAIMS

1. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has ~~having~~ at least about 60% sequence homology with residues 33 to 522 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.
2. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has ~~having~~ at least about 80% sequence homology with residues 33 to 522 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.
3. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has ~~having~~ at least about 90% sequence homology with residues 33 to 522 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.

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4. - 26. (Cancelled)

27. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has having at least about 60% sequence homology with residues 89 to 138 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.

28. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has having at least about 60% sequence homology with residues 196 to 246 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.

29. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has having at least about 80% sequence homology with residues 89 to 138 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.

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30. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has ~~having~~ at least about 80% sequence homology with residues 196 to 246 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.

31. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has ~~having~~ at least about 90% sequence homology with residues 89 to 138 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.

32. (Currently amended) An isolated and purified human occludin polypeptide, or a fragment or variant thereof consisting of fewer amino acids than a full length human occludin polypeptide, wherein the polypeptide, or fragment or variant thereof has ~~having~~ at least about 90% sequence homology with residues 196 to 246 of SEQ. ID. NO: 2, the polypeptide, or fragment or variant thereof being able to inhibit the barrier properties of epithelial or endothelial cells.